

Mumbai University

May - 2018

B.Sc.IT: SEMESTER – V

(QUESTION PAPER)

[IDOL – Revised Course]

PAPER – V

LINUX

ADMINISTRATION

Time: 3 Hours**Total Marks:** 100

- N.B.:** (1) All Question are Compulsory.
(2) Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.
(3) Answer To The Same Question Must Be Written Together.
(4) Number To The Right Indicates Marks.
(5) Draw Neat Labeled Diagrams Wherever Necessary.
(6) Use of Non – Programmable Calculator is allowed.

Q.1 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

- (A) Explain the features of Linux in detail with different Linux Distribution. (5)
(B) List and explain different types of Domain Name Servers. (5)
(C) How can rc scripts be managed using chkconfig? Explain. (5)
(D) What is RAID? Explain different levels of RAID. (5)

Q.2 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) What is GRUB loader? How does it differ from Linux Loader? (5)
(B) Explain the stages of Linux Boot Process. (5)
(C) Explain Bootstrapping in Linux. (5)
(D) What is RC Scripts? (5)
(E) Write a short note on ext3 File System. (5)
(F) What is partitioning of a Hard Disk? What are the different partitions to be created in Linux? What is Swap Partition? (5)

Q.3 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) State and explain any five files that deal with System Environmental Settings. (5)
(B) What are the files required to be changed when we setup a new system or move the system from one location to another? (5)
(C) Write a short note on IP Addressing. (5)
(D) How is DHCP Client Configured? Explain. (5)
(E) Short note on Subnetting. (5)
(F) What is NFS? Explain with example. (5)

Q.4 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) How to install Samba Server in Linux? (5)
(B) What are the steps in Configuring Squid? (5)
(C) Explain the concept of Catching Proxy Server. (5)
(D) Write and explain the default NTP Configuration File. (5)
(E) What are the steps to Configure Linux Firewall Packages? (5)
(F) How can we optimize NFS? Explain. (5)

Q.5 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Short note on DNS. (5)
(B) Explain the files required to configure DNS Server. (5)
(C) How can Anonymous uploads accounts be enabled vsftpd? Explain. (5)
(D) Explain the different ways to maintain Email Security on Linux. (5)
(E) State and explain any five SSL-Related Configuration Directives while running vsftpd over SSL. (5)
(F) Explain any five parameters of vsftpd.conf file. (5)

TURN OVER

Q.6 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Explain Apache Web Server with its features. (5)
- (B) Explain Configuration of SSI on Apache with Script in detail (5)
- (C) Write the purpose of Global Configuration Directives of httpd.conf (5)
- (D) What is the searching and indexing system provide with Linux? Explain its features. (5)
- (E) What is RSS Feed? Explain the elements required in an RSS Feed. (5)
- (F) What are the Common Mailman Administrative Tasks? Explain. (5)

Q.7 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) Explain Useradd Command with any five options. (5)
 - (B) Why should we Upgrade or Customize Linux Kernel? (5)
 - (C) How can we improve the performance of Web Services on a Linux Server? Explain. (5)
 - (D) State and explain any Five rpm Command Line Options. (5)
 - (E) What is Sudo? What are its features? How does Sudo session work after the creation of Configuration File? (5)
 - (F) How can we optimize FTP services on a Linux Server? Explain. (5)
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